

Vital Dx Envoy 500 Chemistry Analyzer



OVERVIEW

The Envoy 500 by Vital Diagnostics performs up to 570 tests per hour, allowing it to handle the workload of the busiest labs. The Envoy 500 delivers the time and money saving features your lab requires with an integrated four-parameter Dry ISE, reusable glass cuvettes, positive sample and reagent identification, a built-in computer with touch screen LCD monitor, and many more.

FEATURES

- The Envoy® 500 has a built-in LCD touch screen and, is driven by the Windows® 2000 operating system. This provides greater ease of use and space savings by eliminating a bulky external monitor and CPU.
- Quality Control results are stored in memory and easily displayed on the screen. QC can be evaluated using up to six Westgard rules and displayed with either Levey-Jennings Graphs or Juden Plots.
- The Envoy Reagent application parameters are pre-loaded into the software, saving you time and eliminating the possibility of data entry mistakes.
- The Envoy 500 holds up to 40 individual Envoy reagents (mono or dual), providing a longer walk-away operation.
- Onboard refrigeration and storage assures reagent stability, which increases reliability of results, while lowering laboratory costs.
- Continuous inventory monitoring enables the operator to know the number of tests remaining for each reagent, minimizing waste.
- The reagent chamber contains an infrared barcode scanner capable of scanning Envoy bar coded reagents, automatically recognizing reagent position and lot expiration intervals.
- The Envoy 500 sample wheel has 52 positions available for patient samples and 26 for calibrators and controls providing your laboratory high throughput capability. Primary tubes or sample cups can be used, providing the testing flexibility you need.
- Liquid sensor detection prevents reporting of invalid results from an insufficient sample. This ensures accurate results and proper treatment decisions.
- The sample chamber contains an infrared barcode scanner, capable of scanning your patient barcodes eliminating the need to manually enter patient information and reducing the risk of sample errors that can cost you time and money.
- The Envoy 500 utilizes a proven, dry, solid-state ISE (Ion Selective Electrode) that doesn't need to be kept wet, reducing reagent consumption
- The ISE system has four electrodes, Na⁺, K⁺, Cl⁻ and CO₂, providing a complete test panel without adding an enzymatic procedure or using a traditional 'wet' electrode. This significantly reduces costs and maintenance time, while increasing reliability of results
- The Envoy 500 contains 34 reusable glass cuvettes that are automatically washed on board, which eliminates the cost of expensive disposable cuvettes.
- The reusable glass cuvettes also provide your lab longer walk-away time than a system using disposable cuvettes, which requires you to return to the instrument to reload cuvettes on a regular basis.

Contact Us for More Information:

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- 909-465-6325
- www.techneal.com



Vital Dx Envoy 500 Specifications

TECHNICAL

- Operative method and Kind: Random access; Discrete
- Assay Methods: Clinical chemistry and immunoturbidimetry
- ISE Module: K, Na, Cl, CO₂
- Test Modes: routine, batch, STAT, profiles
- Tests on-line: 40 refrigerated reagents (mono or dual)
- Programmable tests: 500 single or double reagent
- Speed: 330 test/h, ISE module 240 test/h
- Sample rerun and Dilution: Automatic
- Calibration and controls: Automatic
- Reading: Direct reading in 34 optical glass cuvettes
- Sample tray: 78 programmable positions: 52 samples and STATs, 26 STD and controls. Primary tubes and/or sample cups
- Bar code reader: Two bar-code readers for samples and reagents
- Sample volume: From 1 to 100 µl, 1 µl increments
- Reagent volume: From 5 µl to 500 µl
- Dimensions: Analyzer - 40 x 27 x 23 inches. (W x H x D); Vacuum pump: 8 x 8 x 11 inches (W x H x D)
- Weight: 110 lbs. Vacuum pump - 10 lbs.

USER INTERFACE

- Computer: Industrial MB Pentium >650MHz IBM compatible
- CD rom: > 48x
- Hard disk: >10 Gb
- Monitor: Color LCD TFT with touch screen
- Interface: Two serial port RS232C + UBS
- Printer: Inkjet, color, IBM compatible
- Keyboard and mouse: Wireless, IBM compatible
- External modem: For tele-assistance with USB modem

OPTICAL SYSTEM

- Optical system: Static photometric group (Biotechnica patented)
- Light source: Halogen lamp 12V - 35W
- Filters: 340-380-405-436-480-510-546-578-630-700
- Optical path: 7 mm ± 1%
- Photometric linearity: From 0 to 2.0 Abs ± 1%; from 2.5 to 3.0 Abs ± 2%
- Photometric sensitivity: 0.001 Abs
- Noise: ± 0.0005 at 2.000 Abs

WASHING LIQUID

- Kind: Reagent Grade water and surfactant
- Use: 1 liter/500 tests

ENVIRONMENTAL

- Working temperature: From 18 to 35°C
- Humidity: From 10 to 90%
- Incubation temperature: 30 or 37°C ± 0.1°C.
- Accuracy ± 0.2%
- Refrigeration temperature: 12-15°C (room temperature 25°C)

POWER SUPPLY

- Voltage: Universal 115-120 VAC with PFC
- Power consumption: 600 Watt

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